

ECS/EMD Configuration Change Request

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Page(s)

1. Originator Robert Cole	2. Log Date: 10/09/03	3. CCR #: 03-0690	4. Rev: —	5. Tel: 301.925.0799	6. Rm #: 3109F	7. Org. SE/HW
8. CCR Title: Update kernel and gigabit ethernet patches on p0sas01 and p2dps01						
9. Originator Signature/Date Robert Cole /s/ 10/09/03			10. Class II	11. Type: CCR	12. Need Date: 10/10/03	
13. CCR Sponsor Signature/Date Carolyn Whitaker /s/ 10/9/03			14. Category of Change: Update ECS/EMD Baseline Doc		15. Priority: (If "Emergency" fill in Block 27). Emergency	
16. Documentation/Drawings Impacted (Review and submit checklist): 911-TDA-011			17. Schedule Impact:		18. CI(s) Affected: DPL	
19. Release Affected by this Change:		20. Date due to Customer:		21. Estimated Cost: None - Under 100K		
22. Source Reference: <input checked="" type="checkbox"/> NCR (attach) <input type="checkbox"/> Action Item <input type="checkbox"/> Tech Ref. <input type="checkbox"/> GSFC <input type="checkbox"/> Other: ECSed38447						
23. Problem: (use additional Sheets if necessary) See next page.						
24. Proposed Solution: (use additional sheets if necessary) Install the following patches on p0sas01 and p2dps01 and perform a Synergy test scenario in the PVC. 108528-21: SunOS 5.8: kernel update patch 108813-12: SunOS 5.8: Sun Gigabit Ethernet 3.0 108727-25: SunOS 5.8: /kernel/fs/nfs and /kernel/fs/sparcv9/nfs patch						
25. Alternate Solution: (use additional sheets if necessary) Install the patches at GES DAAC without prior Landover testing.						
26. Consequences if Change(s) are not approved: (use additional sheets if necessary) The impact of making these changes cannot be determined without testing.						
27. Justification for Emergency (If Block 15 is "Emergency"): NCR is currently at severity 2 and the customer has requested it be escalated to severity 1.						
28. Site(s) Affected: <input type="checkbox"/> EDF <input checked="" type="checkbox"/> PVC <input type="checkbox"/> VATC <input type="checkbox"/> EDC <input type="checkbox"/> GSFC <input type="checkbox"/> LaRC <input type="checkbox"/> NSIDC <input type="checkbox"/> SMC <input type="checkbox"/> AK <input type="checkbox"/> JPL <input type="checkbox"/> EOC <input type="checkbox"/> IDG Test Cell <input type="checkbox"/> Other						
29. Board Comments:			30. Work Assigned To:		31. CCR Closed Date:	
32. SCDV CCB Chair (Sign/Date): Byron V. Peters /s/ 10/09/03			Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS			
33. EDF CCB Chair (Sign/Date):			Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS			
34. ECS CCB Chair (Sign/Date):			Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ESDIS			

ADDITIONAL SHEET

CCR #: 03-0690 **Rev:** — **Originator:**

Telephone: **Office:**

Title of Change:

Problem:

Currently GES DAAC is experiencing ongoing data corruption in the data pool. Some of these corrupt files have escaped detection by the custom code checksum verification process. There is a significant correlation between the times of occurrence of a large number of corrupt files on 10/02/03 and input errors on the gigabit ethernet interface as reported by netstat. Previous conversations with Sun regarding interface errors during unrelated problems resulted in the recommendation to upgrade to newer versions of nfs, ethernet, and kernel patches. Although it is not known that updating these patches will fix the problem, the strong correlation suggests that old patches may be a contributing factor and hence upgrade of these patches at GSFC could reduce the severity of the problem. Prior to installing these patches at GSFC, it is necessary that they be tested at Landover. The PVC is the only test environment in Landover with the relevant functional machine (sas01) and a gigabit interface.

CM01AJA00 Revised 10/2/03

ECS/EMD